

Attachment 1

A list of Surfactants Available from Sigma-Aldrich

Anionic

Product Name	Product #
Chenodeoxycholic acid, minimum 95%	C8371
Chenodeoxycholic acid sodium salt, minimum 97%	C8361
Cholic acid, ox of sheep bile, minimum 98%	C1128
Dehydrocholic acid	D8750
Deoxycholic acid, minimum 99%	D2510
Deoxycholic acid, SigmaUltra, minimum 99%	D4297
Deoxycholic acid triethyl ester, approx 95%	D4761
Digtonin Solid	D1141
Digtonin cholesterol defeminate, approx 60% (TLC)	D5828
Dihydrogen	D3104
N-Ethylmethylacetylamine N-oxide	C8975
Docosate sodium salt, minimum 99%, waxy solid	C8588
Docosate sodium salt, SigmaUltra, minimum 99%	C9112
Glycochenodeoxycholic acid sodium salt, minimum 97% (TLC)	G0758
Glycocholic acid hydrate, synthetic, minimum 97% (TLC)	G2878
Glycocholic acid sodium salt hydrate, synthetic, minimum 97% (TLC)	G7137
Glycodeoxycholic acid monohydrate, minimum 97% (TLC)	G4332
Glycodeoxycholic acid sodium salt, minimum 97%	G3258
Glycodeoxycholic acid sodium salt, SigmaUltra, minimum 97% (TLC)	C8840
Glycolithocholic acid 2-sulfate disodium salt	C6262
Glycolithocholic acid ethyl ester	C7840
N-Lauroyl sarcosine sodium salt, minimum 94%	L5123
N-Lauroyl sarcosine sodium salt, SigmaUltra, minimum 97%	L7707
N-Lauroyl sarcosine solution, minimum 95%	L1500
N-Lauroyl sarcosine solution, 20%	L7414
Lithium dodecyl sulfate for electrophoresis, denatured polyacrylamide gel electrophoresis especially at low temperature conditions, approx 99% (GC)	L2274
Lithium dodecyl sulfate, minimum 99.5% (GC)	L4532
Lithium dodecyl sulfate, SigmaUltra, >99% (GC)	L5301
Lugol solution	L6749
Napron 1, type A, approx 27%	N1111
Napron 4, SigmaUltra, type A, approx 27% (GC)	N4274
Trichloro-15	C8118
Trichloro-14 solution, 80% in water	C8114
1-Octanesulfonic acid sodium salt, SigmaUltra	C8118
1-Octanesulfonic acid sodium salt, approx 98%	C8380
Sodium 3-butanesulfonate	B2018
Sodium 3-decanesulfonate, SigmaUltra, approx 98%	B0787
Sodium 3-decanesulfonate, approx 98%	B4112
Sodium 13-decanesulfonate	D3288

Sodium tetrakisulfonate anhydrous, Solid	H2788
Sodium tetrakisulfonate anhydrous, SigmaUltra	H8901
Sodium tetrakisulfonate, approx 98%	N0493
Sodium tetrakisulfonate monohydrate	P4708
Sodium 2,5-bis(2-hydroxyethyl)sulfonate, minimum 98%	B9208
Sodium chromate hydrate, ex of sheep bile, minimum 99%	C1234
Sodium chromate hydrate, SigmaUltra, minimum 99%	C3445
Sodium chromate	35375
Sodium deoxycholate, minimum 97%	B6750
Sodium deoxycholate monohydrate, SigmaUltra, 99% (titration)	B-670
Sodium dodecyl sulfate, minimum 98.5% (GC)	L4509
Sodium dodecyl sulfate, approx 95%, as based on total alkyl sulfate content	L5750
Sodium dodecyl sulfate, SigmaUltra, 99% (GC)	L5026
Sodium hexanesulfonate, anhydrous, approx 98%	H5269
Sodium hexanesulfonate, anhydrous, SigmaUltra	H9026
Sodium octyl sulfate, approx 95%	C4003
Sodium perfluorooctanesulfonate anhydrous	P0259
Sodium perfluorooctanesulfonate, SigmaUltra	P8199
Sodium taurocholate, ex bile	H0750
Sodium taurocholate, minimum 97% (TLC)	H609
Taurchenodeoxycholic acid sodium salt	H8281
Taurchenodeoxycholic acid sodium salt monohydrate, SigmaUltra, minimum 97% (TLC)	H657
Taurchenodeoxycholic acid sodium salt monohydrate, minimum 97% (TLC)	H875
Taurchenodeoxycholic acid sodium salt hydrate, minimum 98%	H682
Taurchenodeoxycholic acid 3-sulfate sodium salt	H512
Taurchenodeoxycholic acid sodium salt, approx 90%	H265
Trimethyl 200 solution, 28% in water, dispersion	X200
Trimethyl XQS-20 solution	X6570
Trimethyl dodecyl sulfate	L546
Ursodeoxycholic acid, minimum 99%	U5127

Anti-Foaming Agent

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Product Name

Product

Antifoam 204	A5428
Antifoam A Concentrate	A5633
Antifoam A Emulsion	A6748
Antifoam B Emulsion	A5757
Antifoam C Emulsion	A6011

Cationic

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Product Name

Product

Alkyltrimethylammonium bromide	H2685
Benzalkonium chloride, Semi-solid	B1383
Benzalkonium chloride, SigmaUltra	B6293
Benzyl dimethyl hexadecyl ammonium chloride	B4136
Benzyl dimethyl tetradecyl ammonium chloride	B5651
Benzyl dodecyl dimethyl ammonium bromide	B5776

Benzyltrimethylammonium tetachloroborate, minimum 88% (titration)	B5042
Dimethyl dodecylammonium bromide	B2773
Dodecyltrimethylammonium bromide	B2784
Dodecyltrimethylammonium bromide, Sigma Ultra, approx. 99%	B5047
Dodecyltrimethylammonium bromide, approx. 99%	B5038
Ethylhexadecyltrimethylammonium bromide	C0636
Grain's agent 1, Crystalline	C1767
Hexadecyltrimethylammonium bromide, minimum 99%, Powder	B5043
Hexadecyltrimethylammonium bromide, Sigma Ultra, approx. 99%	B5053
N,N,N'-Polyoxyethylene-6-N-methyl-3-diaminopropane, liquid	P4182
Thonzonium bromide	T7783
Trimethyl tetradecylammonium bromide, approx. 98%	T4762

Non-Ionic

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Product Name	Product #
BioCHAP, approx. 98%	B5516
Bis(p-phenylene glycol bis(maleate carbonyl)), Powder	B5632
BM 25 (Size Exclusion Chromatography)	B2254
BM 266	B2763
BM 72	B3894
BM 78	B4516
BM 792W	B4114
BM 8073	B4236
BM 88P	B4344
Cremophor EL	C5185
Dodecyltriethylglycerolmonododecyl ether	D2769
N-Dodecyl-N-methylglucamine, minimum 98%	D2767
n-Dodecyl-β-D-glucopyranoside, approx. 98% (GC)	D4118
Dodecyl-β-D-maltopyranoside, minimum 98% (GC)	D7658
n-Dodecanoyl-N-methylglucamine, approx. 98%	D4181
n-Dodecyl-β-D-maltoside, minimum 98% (GC)	D8544
n-Dodecyl-β-D-maltoside, minimum 98%	D8641
n-Dodecyl-β-D-maltoside, Sigma Ultra, minimum 98% (GC)	D5172
Heptaerythritolglycerolmonododecyl ether, minimum 97% (GC)	E7800
Heptaerythritolglycerolmonododecyl ether	E8600
Heptaerythritolglycerolmonotetradecyl ether	P2875
n-Hexadecyl-β-D-maltoside, minimum 98% (GC)	H6282
Hexaerythritolglycerolmonododecyl ether	P2875
Hexaerythritolglycerolmonohexadecyl ether	P2428
Hexaerythritolglycerolmonooctadecyl ether	P4176
Hexaerythritolglycerolmonotetradecyl ether	P3550
Isopal CA-630, Viscous liquid	I5021
Isopal CA-630, for electrophoresis, suitable for electrophoresis	I2871
Methyl-β-D-(N-methylcarbamoyl)-β-D-glucopyranoside, minimum 98% (TLC)	M3420
Nonaerythritolglycerolmonododecyl ether	P2875
N-Nonaerythritol-N-methylglucamine, approx. 98%	N1138

N-Nonyl-N'-ethylglucamine, Sigma Ultra, approx. 98%	M2036
Octadecylene glycol monododecyl ether	P7525
Octadecylene glycol monododecyl ether	P1825
Octadecylene glycol monohexadecyl ether	P0876
Octadecylene glycol monooctadecyl ether	P1426
Octadecylene glycol monotetradecyl ether	P8800
Octyl-D-glucopyranoside, minimum 98%	Q8001
Pentaerythritene glycol monododecyl ether, minimum 97%	P7560
Pentaerythritene glycol monododecyl ether	P1850
Pentaerythritene glycol monohexadecyl ether	P0340
Pentaerythritene glycol monooctyl ether, 95% GC	P1526
Pentaerythritene glycol monooctadecyl ether	P1051
Pentaerythritene glycol monooctyl ether	P1151
Polyethylene glycol diglycidyl ether, approx. 75%	P2872
Polyethylene glycol ether W-1	P7616
Polyoxyethylene 10 dodecyl ether	P2383
Polyoxyethylene 100 stearate	H3680
Polyoxyethylene 20 hexadecyl ether	P2315
Polyoxyethylene 20 oleyl ether	H3621
Polyoxyethylene 40 stearate	P3416
Polyoxyethylene 50 stearate	H3666
Polyoxyethylene 6 stearate	H3315
Polyoxyethylene bis(trimethyl)carbamoyl	H6632
Polyoxyethylene 25 propylene glycol stearate	P2440
Saponin from Quilaja bark	S2148
Saponin from Quilaja bark	S4621
Saparin from Quilaja bark	S7600
Span® 20	S6715
Span® 40	S6884
Span® 60	S7010
Span® 85	S2028
Span® 80	S4760
Span® 85	S7435
Tergitol type 15-S-12	T54812
Tergitol type 15-S-30	T5320
Tergitol type 15-S-5	T5-S5
Tergitol type 15-S-7	T5-S7
Tergitol type 15-S-9	T5-S9
Tergitol type NP-10	NP10
Tergitol type NP-4	NP4
Tergitol type NP-40	NP40
Tergitol type NP-7	NP7
Tergitol type NP-9	NP9
Tergitol MIN FOAM-1x	T1125
Tergitol MIN FOAM-2x	T1280
Tergitol type TMN-10	T0N210

Perginol Type DYN-6	DMN-6
Tetradecyl 8-Denatolaldehyde minimum 98% (GC)	P2834
Tetradecyl ethylene glycol monododecyl ether (approx 97% (GC)	P2835
Tetradecyl ethylene glycol monododecyl ether	P2836
Tetradecyl ethylene glycol monododecyl ether	P2837
Methyltetradecyl glycol monododecyl ether minimum 97% (GC)	P2838
Methyltetradecyl glycol monododecyl ether	P2839
Methyltetradecyl glycol monododecyl ether	P2840
Methyltetradecyl glycol monododecyl ether liquid	P2841
Methyltetradecyl glycol monododecyl ether	P2842
Triton CE-25 Solution	CE-25
Triton CE-25 85% in water	CE-25
Triton CE-12 85% in water	CE-12
Triton CE-16	CE-16
Triton CE-3M 80% in aqueous 20% isopropanol	CE-3M
Triton X-100 reduced	X-100RS
Triton X-102	X-102
Triton X-15	X-15
Triton X-157 solution 85% in water	X-15
Triton X-207	X-207
Triton X-400 Sigma Ultra	X-400
Triton X-100 Peroxide and Carbonyl free	X-100FC
Triton X-14	X-14
Triton X-185 solution 70% in water	X-185
Triton X-305 solution 70% in water	X-305
Triton X-405 solution 70% in water	X-405
Triton X-45	X-45
Triton X-705-70 solution 70% in water	X-705-70
TWEEN® 20 viscous liquid	P2878
TWEEN® 20 Low peroxide Low carbonyls	P2879
TWEEN® 20 Sigma Ultra	P2880
TWEEN® 20 Low peroxide Low Carbonyls	P2881
TWEEN® 20 solution 70% in water	P2882
TWEEN® 20 solution 70% in water	P2883
TWEEN® 21	P2884
TWEEN® 40 viscous liquid	P2885
TWEEN® 60	P2886
TWEEN® 80	P2887
TWEEN® 85	P2888
TWEEN® 80 Viscous liquid	P2889
TWEEN® 80 Sigma Ultra	P2890
TWEEN® 80	P2891
TWEEN® 80 Viscous liquid Low Peroxide	P2892
TWEEN® 80 Viscous liquid Preservative Free Low peroxide Low carbonyls	P2893
TWEEN® 80 solution Low Peroxide 10% (Solution)	P2894
TWEEN® 80 solution liquid	P2895

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Amdt. dated June 28, 2005
Reply to Office Action of March 28, 2006

TWEEN® 80	02813
TWEEN® 85	02814
Hy Oxazol SigmaUltra	00307
Hy Oxazol	00784
n-Undecyl-β-D-glucopyranoside, approx. 97% (TC)	03254

Zwitterionic

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Product Name	Product #
CHAPS, minimum 98% (TC)	03023
CHAPS, SigmaUltra, minimum 98% (TC)	03070
CHAPS, for electrophoresis, minimum 99% (TC)	03076
CHAPS, minimum 95% (TC)	03089
CHAPS, SigmaUltra	04695
CHAPS, for electrophoresis	04651
3-(3-decyldimethylammonio)propanesulfonate inner salt	04268
3-(3-odecyldimethylammonio)propanesulfonate inner salt, SigmaUltra	04333
3-(3-odecyldimethylammonio)propanesulfonate inner salt	04518
33-N,N-Dimethyl-1-methylammonio)propanesulfonate	04763
34-N,N-Dimethyloctadecylammonio)propanesulfonate	04804
34-N,N-Dimethyloctylammonio)propanesulfonate inner salt	04826
34-N,N-Dimethylpalmitylammonio)propanesulfonate	04833

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